

ABSTRACT OF THE DISCLOSURE

The present invention comprises a pulley for a transmission belt and pulley system. The pulley of the present invention is designed to interact with current, off-the-shelf transmission belts to improve belt life and system performance. The invention accomplishes these objectives by providing a novel pulley tooth design that significantly increases belt life along with the addition of surface gaps across the teeth to increase gripping between the belt and the pulley, and holes through the pulley sides and the pulley face to reduce air trapped between the belt and pulley face, reducing hydroplaning.